

ABSTRACT

Methods and systems for detecting a signal indicative of at least a heart beat, a heart rate, or an ECG waveform of an animal is provided. The systems and methods may include scanning each of a plurality of electrodes for a signal indicative of contact by an animal and selecting a signal from each of at least a pair of electrodes, where each selected electrode includes a signal indicative of contact with the animal. The systems and methods may also include creating a differential signal from the signals of at least a pair of electrodes and determining at least a heart beat, a heart rate, or an ECG waveform from the differential signal.